

WEGA HIFI-STEREO-CASSETTE-DECK

Mini Modul 205 C

Kundendienstanleitung
Service Manual

12/79



INHALT

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ACHTUNG!

DIE IN DEN SCHALTBILDERN, DEN EXPLOSIONSZEICHNUNGEN UND DER ERSATZTEILLISTE GRAU UNTERLEGTEN UND MIT DIESEM ZEICHEN GEKENNZICHNETEN BAUTEILE SIND FÜR DIE BETRIEBS-SICHERHEIT WICHTIG. NUR DURCH ORIGINAL WEGA-TEILE ERSETZEN. SACHNUMMERN SIND IN DIESEM HANDBUCH, ODER IN VON WEGA HERAUSGEGEBENEN ERGÄNZUNGEN.

SAFETY-RELATED COMPONENT WARNING!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH WEGA PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY WEGA.

TECHNISCHE DATEN

Allgemeines	Halbleiter
Stromversorgung	
Leistungsaufnahme	
Abmessungen (B x H x T)	205 x 66 x 204 mm
Gewicht	2.7 kp (26.5 N)
Aufnahmesystem 4-Spur	Stereo
Bandgeschwindigkeit	4.76 cm/s \pm 1 %
Gleichlaufschwankungen	\pm 0.20 %
Stoppsystem	vollautomatisch
Automatische Abschaltzeit	5 Sek. \pm 3
Druckkraft der Andruckrolle	300 g \pm 50 (2.94 N \pm 0.49)
Aufwickeldrehmoment	50 g.cm +20 -10 (490 mN.m +196 - 98)
FF- und REW-Drehmoment	140 g.cm +60 -50 (1372 mN.m +588 - 490)
Umpulzeit	90 Sek. (C-60)
PB-Ausgang (P-4-L81)	0.53 V \pm 0.05
PB-Rauschpegel (A-bewertet)	< 2.0 mV (Standard, DOLBY NR OFF) 0 VU \pm 1.2 dB < 2.0 % (CrO ₂)
REC/PB-Ausgang (400 Hz, 0 VU)	> 50/56 dB (CrO ₂) DOLBY NR OFF/ON
REC/PB-Verzerrung (400 Hz, 0 VU)	> 48/54 dB (Standard, DOLBY NR OFF/ON
REC/PB-Signal/Rauschabstand	> 35 dB > 65 dB
(400 Hz, A-bewertet)	> 60 dB \pm 1.5 dB > 8 dB 85 kHz CrO ₂ 30 - 15000 Hz Standard 30 - 12500 Hz
Übersprechdämpfung (1 kHz, 0 VU)	Servo
Nachbarspurdämpfung (1 kHz, 0 VU)	REC/PB Permalloy
Löschedämpfung	ERASE Ferrit
(400 Hz, 0 VU, +10 dB)	2 0.3 mV
VU-Meter-Anzeige	200 Ω - 10 k Ω
Dolby-Rauschunterdrückung	0.1 mV/k Ω
Vormagnetisierungsfrequenz	3 k Ω
Frequenzgang	
Motor : Gleichstrom	
Tonkopf	
Eingänge :	
MIC Klinkenbuchsen	2
Empfindlichkeit	0.3 mV
Impedanz	200 Ω - 10 k Ω
DIN-Buchse	0.1 mV/k Ω
Impedanz	3 k Ω
Ausgänge :	
DIN-Buchse	> 50 k Ω
Belastungsimpedanz	0.41 V
Ausgangspegel	

SPECIFICATIONS

**General
Semiconductors**

Power Requirements

Power Consumption

Dimensions (WxHxD)

Weight

Recording System 4-track

Tape Speed

Wow and Flutter

Stop System

Automatic Shutt-off action time

Pinch Roller Pressure

Take-up Torque

FF and REW Torque

FF and REW Time

PB Output (P-4-L81)

PB Noise Level (weighted A)

REC/PB Output (400 Hz, 0 VU)

REC/PB Distortion (400 Hz, 0 VU)

REC/PB S/N Ratio

(400 Hz, weighted A)

Channel, Separation (1 kHz, 0 VU)

Cross Talk (1 kHz, 0 VU)

Erasing Ratio

(400 Hz, 0 VU, +10 dB)

Level Indicator Display Error

Dolby Effect

Bias Frequency

Frequency Response

**Motor : DC
Head**

Inputs :

MIC Jacks

Sensitivity

Impedance

DIN

Impedance

Outputs :

DIN Socket

Load Impedance

Output Level

- Änderungen, die dem technischen Fortschritt dienen, vorbehalten.
- « DOLBY » und das Doppel-D-Symbol sind eingetragene Warenzeichen der Dolby Laboratory Inc. Das Rauschunterdrückungssystem wird von Dolby Laboratory Inc. in Lizenz hergestellt.

- Subject to modifications due to standardization.

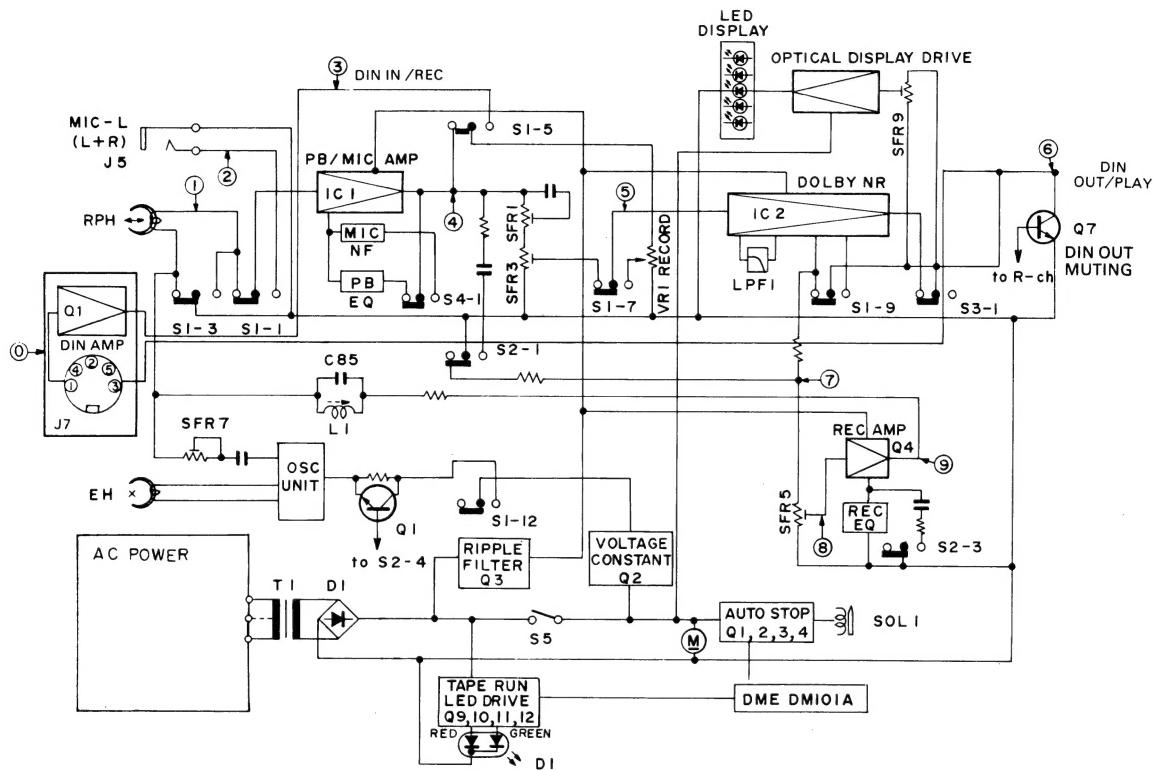
- « DOLBY » and the Double-D-Symbol are the trade marks of Dolby Laboratory Inc. Noise reduction system manufactured under licence from Dolby Laboratory Inc.

TEIL 1

1-1. BLOCKSCHALTBILD

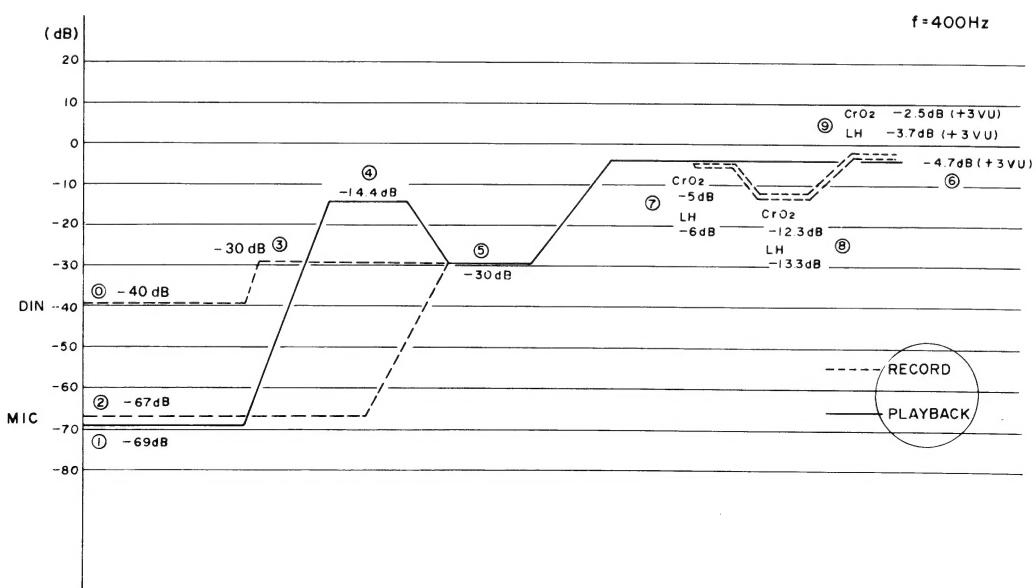
SECTION 1

1-1. BLOCK DIAGRAM



1-2. PEGELDIAGRAMM

1-2. LEVEL DIAGRAM



**TEIL 2
DEMONTAGE**

**SECTION 2
DISASSEMBLY**

1. Ausbau der Frontplatte

- 1) Das Metallgehäuse entfernen.
- 2) Die Knöpfe abziehen.
- 3) Zwei Schrauben entfernen (Abb. 1).

1. Front Panel Removal

- 1) Remove the steel cabinet.
- 2) Pull off the control knobs.
- 3) Remove two screws (Fig. 1).

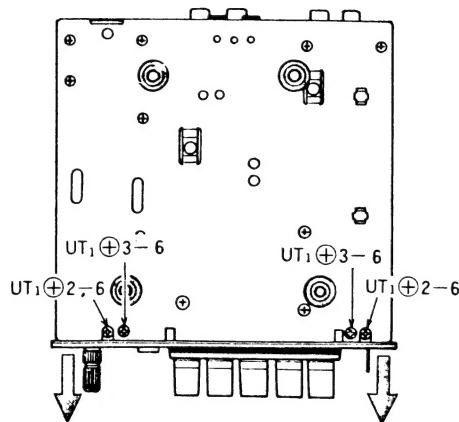


Abb. 1 Fig.

2. Ausbau des Laufwerks

Fünf Schrauben entfernen. (Abb. 2).

2. Mechanism Removal

Remove five screws (Fig. 2).

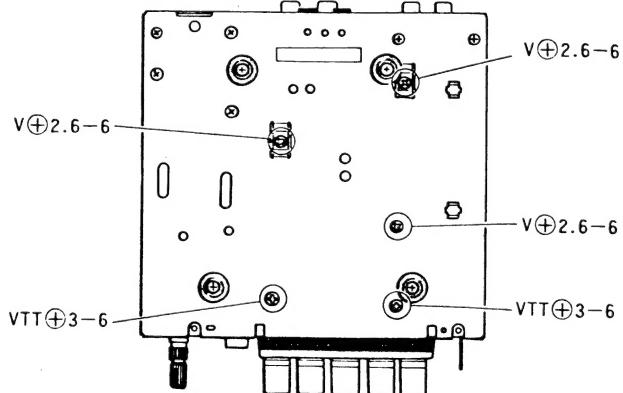
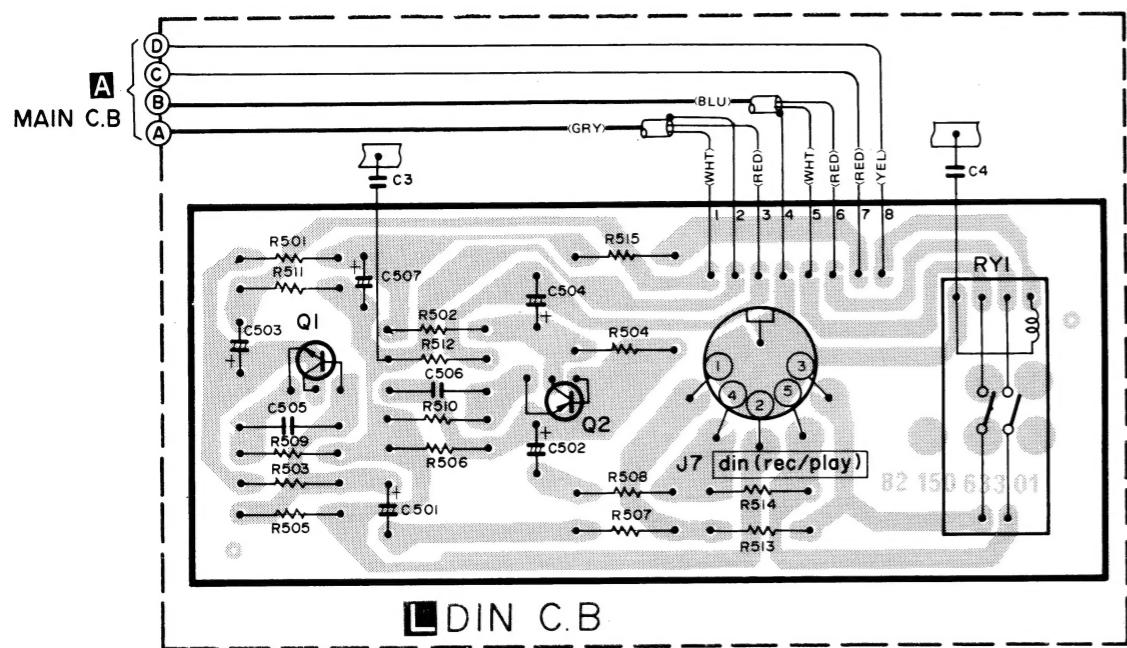


Abb. 2 Fig.

TEIL 3 & 4
ABGLEICH UND
SCHALTBILDER

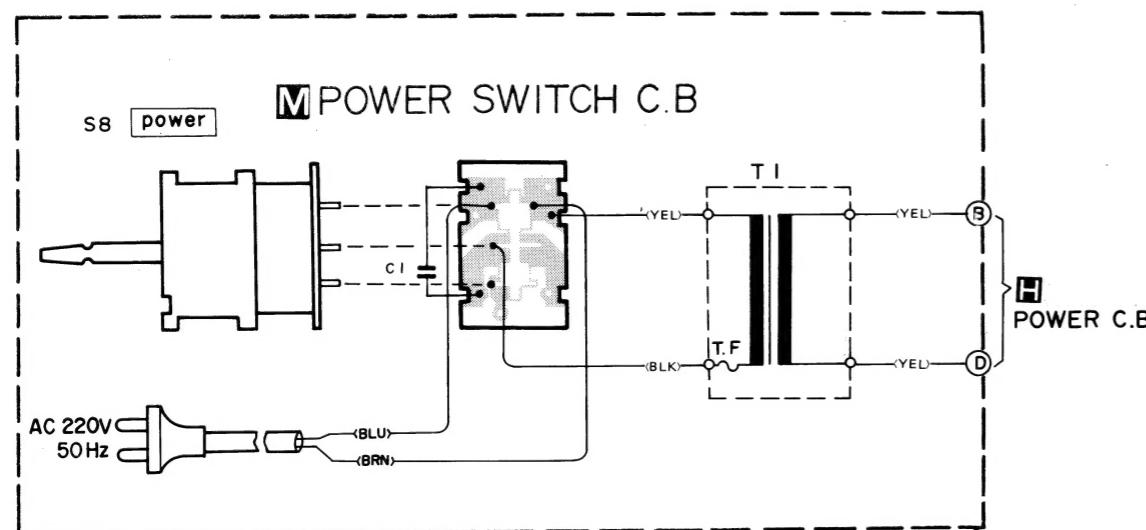
4-1. PLATINENLAGEPLAN 1



SECTION 3 & 4
ADJUSTMENTS AND
DIAGRAMS

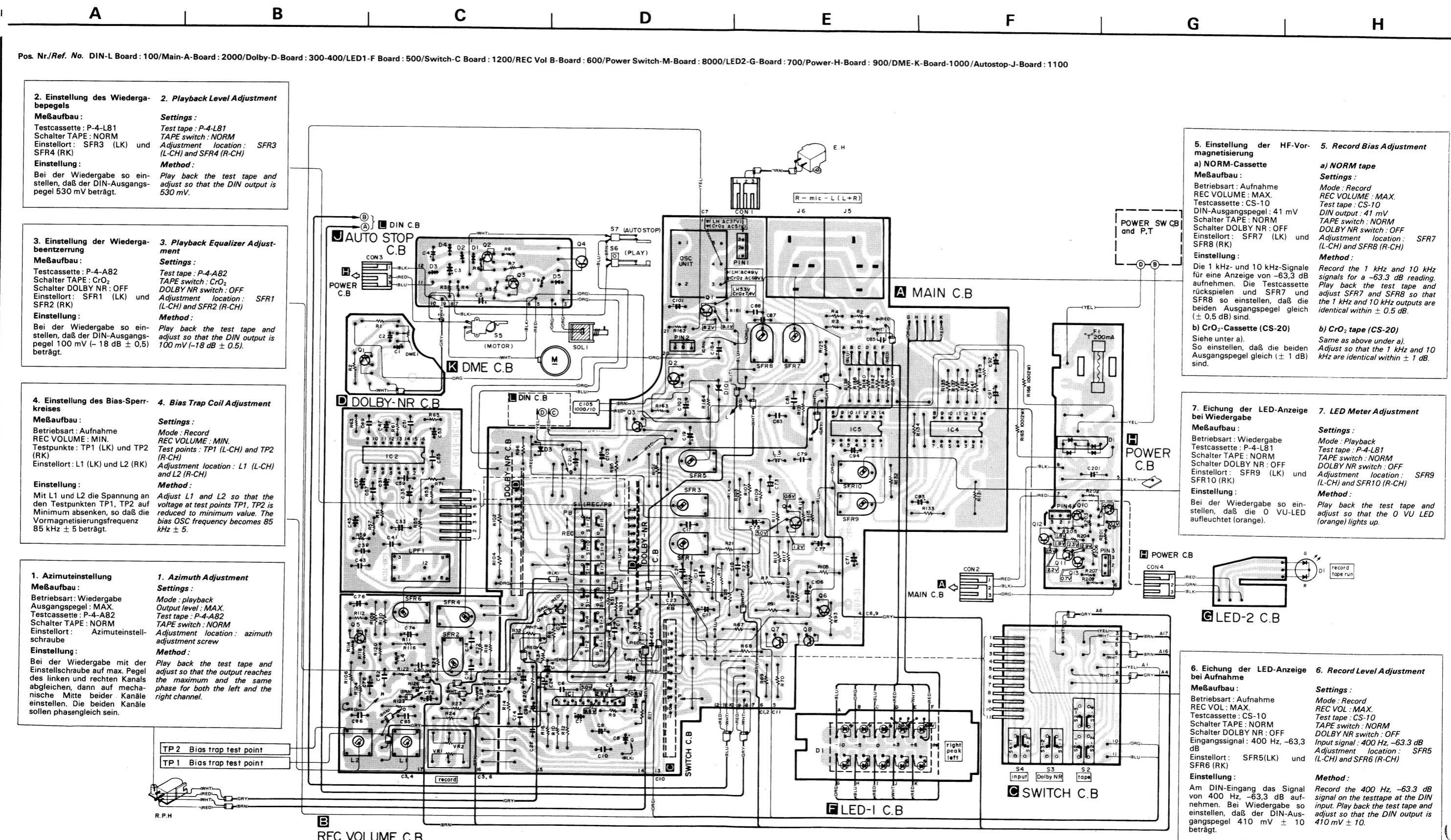
4-1. MOUNTING DIAGRAM 1

MEMO



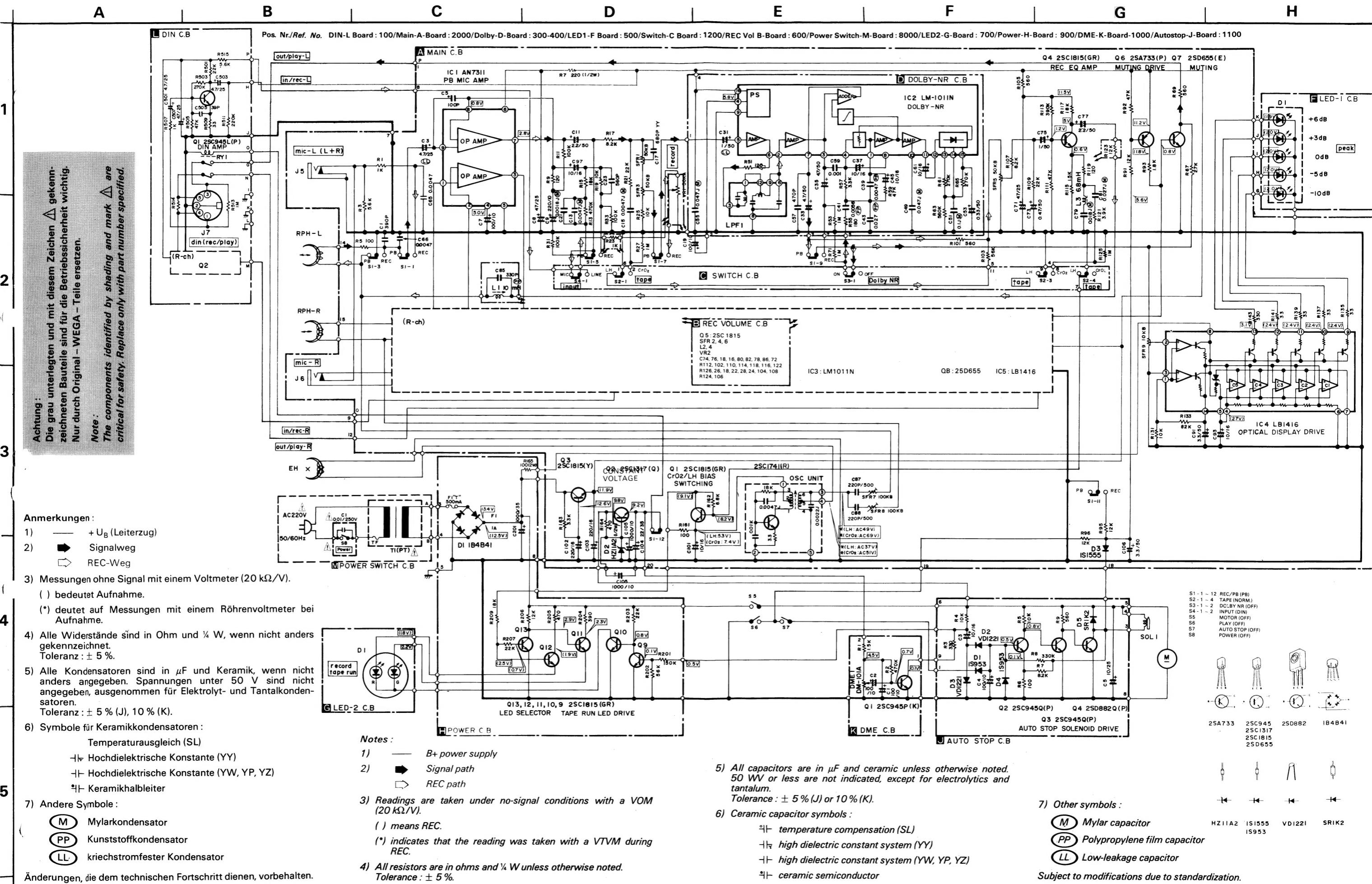
4-2. PLATINENLAGEPLAN 2

4-2. MOUNTING DIAGRAM 2



4-3. FUNKTIONSSCHALTBILD

4-3. SCHEMATIC DIAGRAM

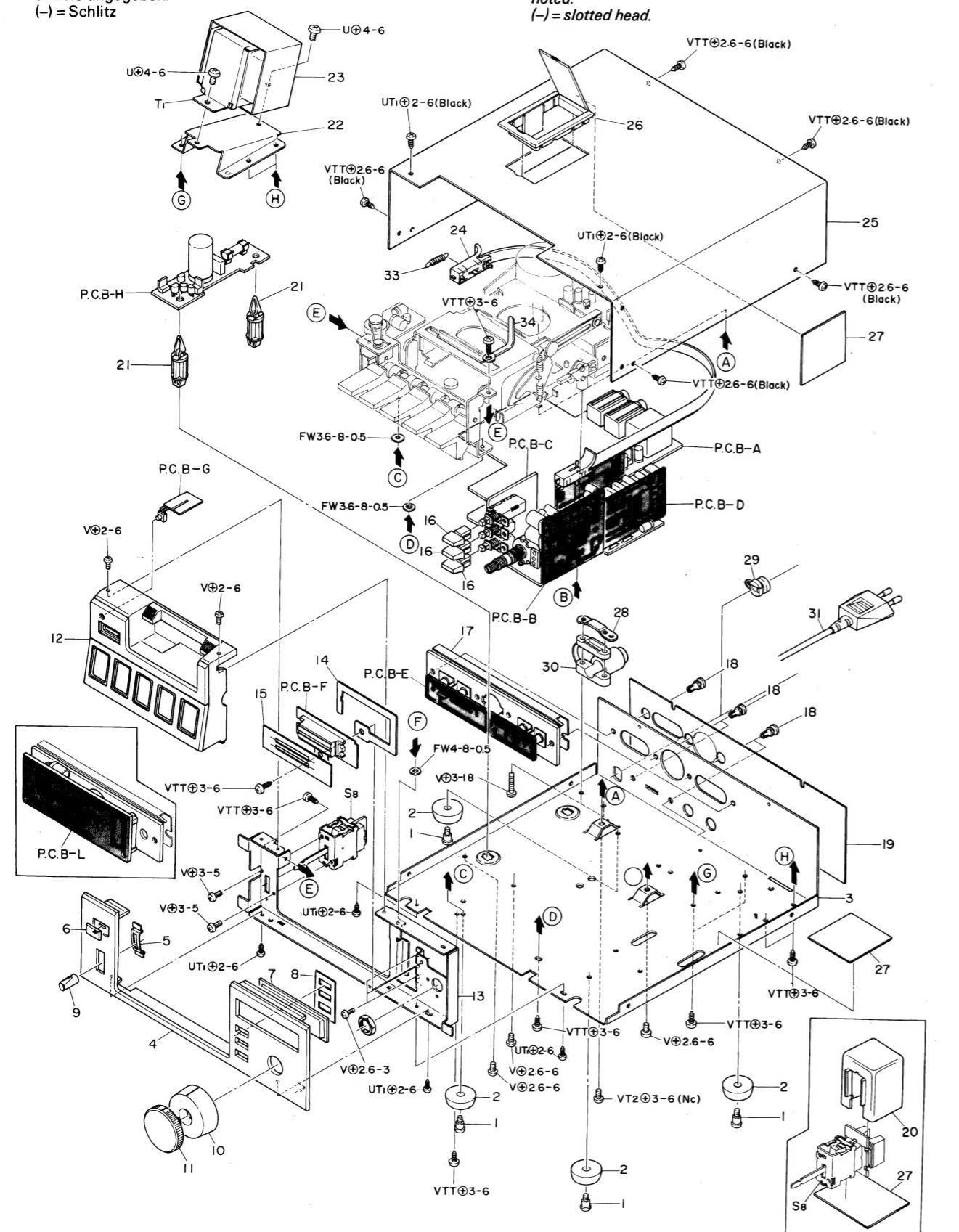


TEIL 5 EXPLOSIONSDARSTELLUNGEN

5-1. EXPLOSIONSDARSTELLUNG 1

- Alle Schrauben sind Kreuzschlitzschrauben, wenn nicht anders angegeben.
(-) = Schlitz

- All screws are Phillips (cross recess) type unless otherwise noted.
(-)=slotted head.



SECTION 5

5-1 EXPLODED VIEW 1

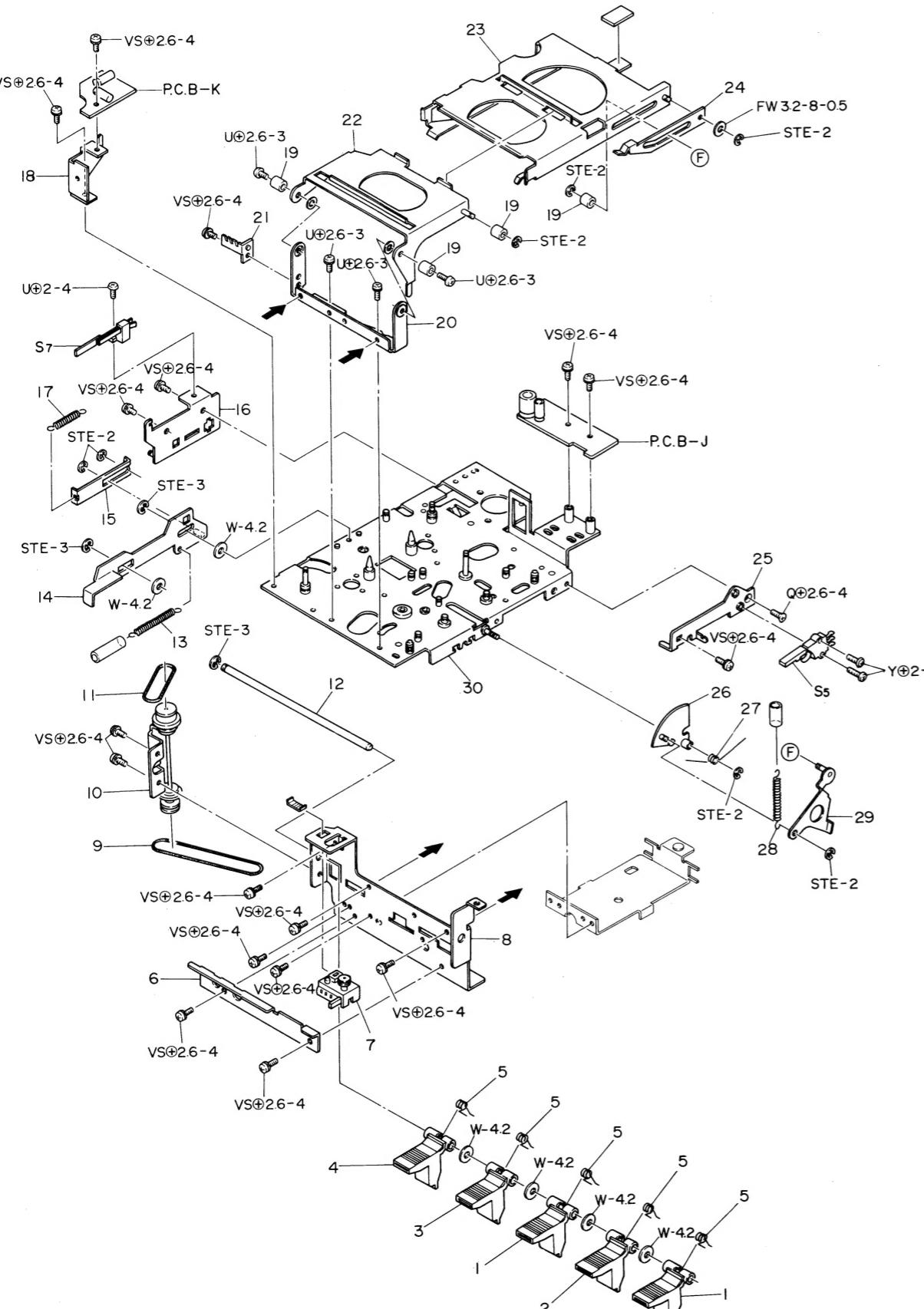
Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
1-1	9-943-002-26	Screw
1-2	9-943-000-13	Rubber foot
1-3	9-943-002-20	Amp chassis
1-4	9-943-001-97	Panel, Front
1-5	9-943-000-04	Lever guide
1-6	9-943-002-10	Label, Specification
1-7	9-943-002-12	Window, LED
1-8	9-943-002-15	Guide, Push button
1-9	9-943-000-05	Key
1-10	9-943-002-06	Knob, Volume
1-11	9-943-002-05	Knob, Volume
1-12	9-943-002-04	Front cabinet ass'y
	9-943-001-98	Decorative plate, Cassette
	9-943-002-09	Plate, Push-key
	9-943-002-01	Cassette plate
	9-943-002-08	Cassette lid
	9-943-002-18	T spring, Cassette lid
	9-943-002-16	Shaft, Cassette lid
1-13	9-943-002-13	Front chassis
1-14	9-943-002-19	Spacer
1-15	9-943-001-94	LED window
1-16	9-943-002-07	Push button
1-17	9-943-002-49	Shield plate
1-18	4-812-134-00	Nylon rivet 3.5-5.5
1-19	9-943-001-99	Plate, Jack
1-20	9-943-002-53	Cover, Power switch
1-21	9-943-002-14	Holder, Circuit board
1-22	9-943-002-21	Holder, Power transformer
1-23	9-943-002-27	Power Transformer
1-24	9-943-002-76	Wire, remote switch
1-25	9-943-002-03	Steel cabinet
1-26	9-943-001-95	Head cover
1-27	9-943-002-51	Insulator
1-28	9-943-001-05	Plate, I.C.
1-30	9-943-002-25	Holder, AC power cord
1-31	1-551-530-00	AC power cord
1-33	9-943-002-17	E spring (REC switch)
1-34	9-943-002-77	Binder, Wire
	9-943-001-96	Caution label (REC)
	9-943-002-02	Plate, LED
	9-943-002-11	Serial No. label

5-2. EXPLOSIONSDARSTELLUNG 2

- Alle Schrauben sind Kreuzschlitzschrauben, wenn nicht anders angegeben.
(-) = Schlitz.

- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head.

5-2. EXPLODED VIEW 2



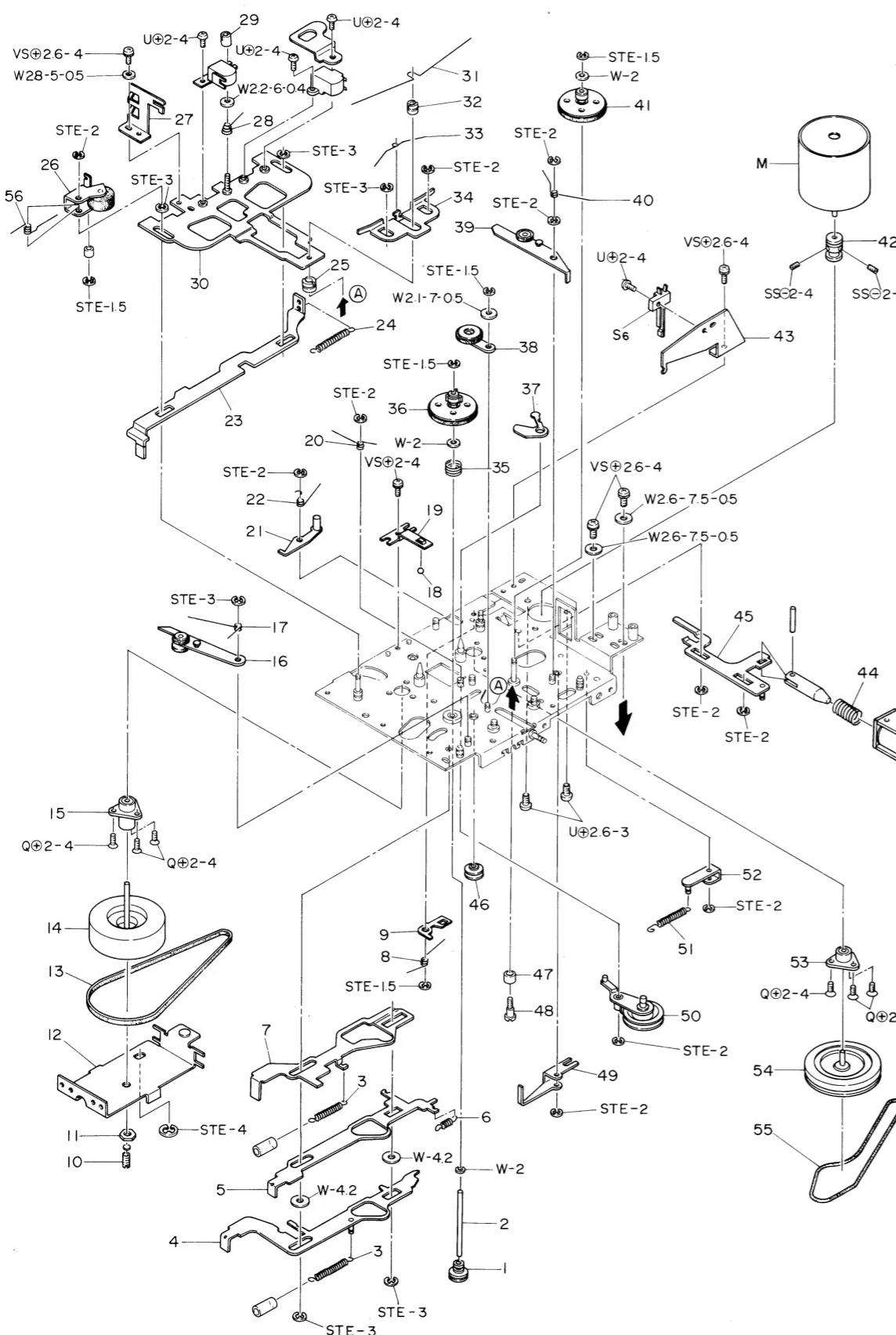
Pos. Nr. Ref. No.	Sachnr. Part. No.	Beschreibung Description
2-1/4	9-943-003-70	Push-key
2-5	9-943-003-71	Spring, Push-key
2-6	9-943-003-72	Lever stopper
2-7	9-943-003-73	Counter
2-8	9-943-003-74	Holder, Lever
2-9	9-943-003-75	Belt, Reel platform
2-10	9-943-003-76	Pulley plate ass'y
2-11	9-943-003-77	Belt, Counter
2-12	9-943-003-78	Shaft, Push-key
2-13	9-943-003-79	Spring, REC lever
2-14	9-943-003-80	REC lever ass'y
2-15	9-943-003-81	Plate spring holder, REC switch
2-16	9-943-003-56	REC switch holder ass'y
2-17	9-943-003-57	Spring, REC
2-18	9-943-003-58	Holder, Protector
2-19	9-943-003-59	Spacer, Bracket
2-20	9-943-003-60	Bracket B, CAS
2-21	9-943-003-61	Holder, PR spring
2-22	9-943-003-62	CAS bracket A ass'y
2-23	9-943-003-68	Cassette case ass'y
2-24	9-943-003-63	Stopper, CAS
2-25	9-943-003-64	Holder, SSW
2-26	9-943-003-65	Holder UD plate ass'y
2-27	9-943-003-66	Spring, UD plate
2-28	9-943-003-67	Spring, Stopper lever
2-29	9-943-003-67	Holder UD lever ass'y
2-30	9-943-004-41	Mechanism chassis ass'y

5-3. EXPLOSIONSDARSTELLUNG 3

- Alle Schrauben sind Kreuzschlitzschrauben, wenn nicht anders angegeben.
(-) = Schlitz

5-3. EXPLODED VIEW 3

- All screws are Phillips (cross recess) type unless otherwise noted.
(-) = slotted head.



MINIMODUL 205 C

MINIMODUL 205 C

TEIL 6 ELEKTRISCHE ERSATZTEILLISTE

SECTION 6 ELECTRICAL PARTS LIST

Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
	HALBLEITER Transistoren	SEMICONDUCTORS Transistors
Q2001, Q2004		
Q2002		
Q605		
Q909, 910, 911, Q912, 913	{ 8-729-281-52	2SC1815
Q2007, Q2008	9-943-002-81	2SD655E
Q101, 102	8-729-663-47	2SC945
Q1001	8-729-663-47	2SC945
Q1104	9-943-004-52	2SD882
Q1102, 1103	8-729-663-47	2SC945
Q2006	8-729-103-36	2SA733
Q2002	9-919-419-00	2SC1317
	I.C.	I.C.'s
IC2004,2005	8-759-814-16	LB1416
IC302, 403	9-943-002-59	LM1011N
IC2001	9-943-002-60	AN7311
	Dioden	Diodes
D2001	8-719-815-55	1S1555
D901	9-943-002-58	1B4B41
D1103	8-719-122-10	VD1221
D1101, 1104	9-943-004-53	1S953
D1105	9-943-004-54	SR1K2
D501, 502	9-943-002-61	LN05103P2
D701	9-943-002-62	LN16BP
D2002	9-943-002-63	HZ11A2
D1001	8-749-011-01	DM101A
	TRANSFORMATOR	TRANSFORMER
T1	⚠ 9-943-002-27	Power
	SPULEN	COILS
L2003	9-943-002-48	6.8 mH, microinductor
RY101	9-943-002-54	Relay
L601, 602	9-943-002-55	Trap coil, bias
LPF 301, 402	9-943-002-64	Filter, LP85K
	KONDENSATOREN	CAPACITORS
Wenn nicht anders angegeben, sind alle Kondensatoren in μF und Keramik. Spannungen unter 50 V sind nicht angegeben, ausgenommen für Elektrolyt- und Tantalkondensatoren.		
Elect : Elektrolytkondensator.		
All capacitors are in μF and ceramic, unless otherwise noted. 50 V or less are not indicated except for electrolytics and tantalum. p $\mu\mu F$. elect : electrolytic.		
C31	1-121-912-11	1 50V elect
C10	1-121-321-11	220 16V elect

Wenn nicht anders angegeben, sind alle Kondensatoren in μF und Keramik. Spannungen unter 50 V sind nicht angegeben, ausgenommen für Elektrolyt- und Tantalkondensatoren.
 Elect : Elektrolytkondensator.

All capacitors are in μF and ceramic, unless otherwise noted. 50 WV or less are not indicated except for electrolytics and tantalum. p : $\mu\mu\text{F}$. elect : electrolytic.

C31 1.121.012.11 1 50V elect

Achtung:
Die grau unterlegten und mit diesem Zeichen  gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig.
Nur durch Original – WEGA – Teile ersetzen.

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

SECTION 6 ELECTRICAL PARTS LIST									
Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description		Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description			
C7	1-123-307-00	100	10V elect	R53, 54, 71, 72	1-246-545-00	1M	1/4W, variable		
C3, 4	1-123-332-00	47	25V elect	R125, 126	1-246-451-00	120	1/4W		
C201	1-123-349-00	1000	35V elect	R9, 10, 51, 52		12k	1/4W		
C19, 20	1-123-307-00	100	10V elect	R15, 16	1-246-479-00	18k	1/4W		
C9	1-123-308-00	220	10V elect	R109, 110, 203, 207	1-246-565-15	22k	1/4W		
C37, 38, 45, 46, 97	1-123-316-00	10	16V elect	R503, 504, 65, 66	1-246-531-00	270k	1/4W		
C503, 504	1-123-328-00	4.7	25V elect	R57, 58, 163	1-246-485-00	3.3k	1/4W		
C71, 72, 501, 507	1-123-332-00	47	25V elect	R204	1-246-463-00	370	1/4W		
C75, 76	1-123-352-00	1	50V elect	R113, 114	1-246-535-00	390k	1/4W		
C11, 77, 78	1-123-353-00	2.2	50V elect	R205	1-246-465-00	470	1/4W		
C91, 106	1-123-354-00	3.3	50V elect	R59, 60, 505, 506	1-246-513-00	47k	1/4W		
C53, 54	1-123-286-00	0.33	50V elect	R164	1-246-537-00	470k	1/4W		
C33, 34, 35, 36	1-123-355-00	4.7	50V elect	R3, 4	1-246-491-00	5.6k	1/4W		
C104	1-123-342-00	22	35V elect	R103, 104, 202	1-246-515-00	56k	1/4W		
C73, 74	1-123-351-00	0.47	50V elect	R63, 64	1-246-539-00	560k	1/4W		
C3, 4	1-123-332-00	4.7	25V elect, LL	R161	1-246-449-00	100	1/4W		
C105	1-123-311-00	1000	10V elect	R23, 24, 507, 508	1-246-473-00	1k	1/4W		
C59, 60	1-161-039-00	0.001		R25, 26, 131	1-246-497-00	10k	1/4W		
C65, 66	1-161-021-00	0.047		R27, 28, 513, 514	1-246-545-00	1M	1/4W		
C57, 58	9-943-002-96	470p		R119, 120	1-246-451-00	120	1/4W		
C17, 18	9-943-002-97	680p		R123, 124,	1-246-499-00	12k	1/4W		
C87, 88	9-943-002-99	220p	500V	R95, 96, 206	1-246-477-00	1.5k	1/4W		
C505, 506	9-943-003-01	39p		R115, 116	1-246-525-00	150k	1/4W		
C5, 6	9-943-003-02	100p		R201	1-246-455-00	180	1/4W		
C1, 2	1-102-822-00	390p		R55, 56	1-246-479-00	1.8k	1/4W		
C23, 24	1-102-115-00	560p		R117, 118, 209	1-246-503-00	18k	1/4W		
C13, 14, 15, 16	1-108-571-00	0.0047	mylar	R21, 22, 501, 502	1-246-505-00	22k	1/4W		
C21, 22	1-108-561-00	0.0018	mylar	R511, 512	1-246-529-00	220k	1/4W		
C49, 55	1-108-595-00	0.047	mylar	R67, 68	1-246-483-00	2.7k	1/4W		
C79, 80	1-108-585-00	0.018	mylar	R61, 62	1-246-531-00	270k	1/4W		
C81, 82	1-108-589-00	0.027	mylar	R135, 137, 139, 141	1-246-437-00	33	1/4W		
C51, 52	1-108-603-00	0.1	mylar	R509, 510	1-246-461-00	330	1/4W		
CP1	⚠ 1-130-455-00	0.01	250Vline	R143	1-246-461-00	3.9k	1/4W		
C43, 44	9-943-003-04	0.027		R121, 122	1-246-487-00	47k	1/4W		
C41, 42	9-943-003-05	0.0056	,PP	R92, 111, 112	1-246-513-00	470k	1/4W		
C39, 40	9-943-003-06	0.0047		R13, 14	1-246-537-00	560	1/4W		
C85, 86	1-104-065-21	330p		R101, 102, 105, 106	1-246-467-00	560	1/4W		
C3	1-123-316-00	10	16V elect	R69, 70	1-246-491-00	5.6k	1/4W		
C4	1-123-307-00	100	10V elect	R162	1-246-493-00	6.8k	1/4W		
C5	1-123-329-00	10	25V elect	R17, 18	1-246-495-00	8.2k	1/4W		
C1, 2	1-123-307-00	100	10V elect	R107, 108, 133	1-246-519-00	82k	1/4W		
WIDERSTÄNDE		RESISTORS		R1	1-244-857-00	220	1/2W		
Alle Widerstandswerte sind in Ohm. Normale 1/4W-Widerstände sind nicht aufgeführt. Die Sachnummern für diese Widerstände sind in der Liste auf Seite 20 zusammengefaßt.				R11, 12, 31, 32	1-246-521-00	100k	1/4W		
kΩ : 1000Ω; MΩ : 1000 kΩ.				R33, 34	1-246-467-00	560	1/4W carbon (±5%)		
<i>All resistors are in ohms. Common 1/4W carbon resistors are omitted.</i>				R9	1-246-477-00	1.5k	1/4W carbon (±5%)		
<i>Refer to the list on page 20 for their part numbers.</i>				R1	1-246-461-00	330	1/4W carbon (±5%)		
<i>kΩ : 1000Ω; MΩ : 1000 kΩ.</i>				R2	1-246-537-00	470k	1/4W carbon (±5%)		
				R3	1-246-461-00	470k	1/4W carbon (±5%)		
				R4, 5	1-246-497-00	10k	1/4W carbon (±5%)		
				R6	1-246-449-00	100	1/4W carbon (±5%)		
				R7	1-246-495-00	8.2k	1/4W carbon (±5%)		
				R8	1-246-533-00	330k	1/4W carbon (±5%)		
				SFR1, 2, 3, 4, 5, 6	1-226-238-00	50k-B, adjustable;			
				SFR7, 8	9-9043-002-57	100k-B, adjustable;			
				SFR9, 10	9-943-002-56	10k-B, adjustable;			
				VR1, 2	9-943-002-36	50k/50k-A, variable; VOLUME			
				SCHALTER		SWITCHES			
				S5	9-943-004-43	Micro			
				S7	9-943-004-44	Leaf			
				S6	9-943-004-39	Leaf			
				S8	⚠ 9-943-002-65	Power			
				LEITERPLATTEN		PRINTED CIRCUIT BOARDS			
				PCB-K	9-943-004-40	DME (K)			
				PCB-J	9-943-004-49	AS			
				PCB-A	9-943-002-28	Main			
				PCB-B	9-943-002-29	VR			
				PCB-C	9-943-002-30	SW			
				PCB-D	9-943-002-31	Dolby			
				PCB-F	9-943-002-32	LED1			
				PCB-H	⚠ 9-943-002-33	Power circuit			
				PCB-L	9-943-002-34	DIN			
				PCB-G	9-843-002-44	LED 2, unmounted			
				PCB-M	⚠ 9-943-002-52	Power Switch, unmounted			
				SONSTIGES		MISCELLANEOUS			

Achtung :
Die grau unterlegten und mit diesem Zeichen  gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig.
Nur durch Original – WEGA – Teile ersetzen.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Pos. Nr. Ref. No.	Sachnr. Part No.	Beschreibung Description
	9-943-002-41	3 P connector ass'y, LED
	9-943-002-69	CIS pin, 7 P
	9-943-002-70	CIS pin, 11 P
	9-943-002-72	3 P connector
	9-943-002-73	Jack, 6.3
	9-943-002-74	Pin, Ø 1
	⚠ 9-943-002-75	Fuse clamp
	9-943-002-76	Wire, Remote switch
	1-551-530-00	AC power cord
F1	⚠ 1-532-279-00	Fuse, 500 mA
	9-943-002-77	Wire binder
	9-943-002-78	Head, Rec/PB
	9-943-002-79	Head, Erase
	9-943-002-95	Fuse label, 500 mA
M	9-943-003-69	Motor DC
Sol 1	9-943-004-42	Solenoid ass'y
	⚠ 9-943-002-25	Holder, AC cord

ZUBEHÖR & VERPACKUNGSMATERIAL ACCESSORIES & PACKINGS MATERIAL	
Sachnr. Part No.	Beschreibung Description
9-943-002-82	Cushion, L
9-943-002-83	Cushion, R
9-943-002-84	Individual carton box
9-943-002-85	Outer carton
9-943-002-87	Guarantee card
9-943-002-88	Patch cord, CW-115
9-943-002-89	Polyvinyl bag
9-943-002-90	Polyvinyl bag
9-943-002-91	Polyvinyl bag
9-943-002-92	Polyvinyl bag
9-943-002-93	Serial No. label
9-943-002-94	Head cleaning stick
9-943-002-22	Cushion S, REC SW
9-943-002-23	Cushion, Main C.B.
9-943-002-24	E spring pause
9-943-001-05	Plate, I.C.
4-812-134-00	Rivet, nylon 3.5-5.5
9-943-002-26	Screw
9-943-002-86	Manual, instruction

Achtung:
Die grau unterlegten und mit diesem Zeichen ⚠ gekennzeichneten Bauteile sind für die Betriebssicherheit wichtig.
Nur durch Original - WEGA - Teile ersetzen.

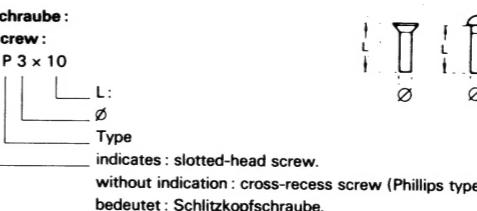
Note:
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Die mit « ⚠ » gekennzeichneten Teile sind nicht auf Lager, weil sie selten benötigt werden. Verzögerung bei der Lieferung möglich.
- Items marked « ⚠ » are not stocked since they are seldom required for routine-service. Some delay should be anticipated when ordering these items.

SCHIWID — ¼ WATT — CARBON RESISTORS

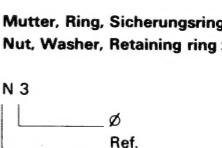
Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.	Ω	Part No.
1.0	1-246-401-00	10	1-246-425-00	100	1-246-449-00	1.0k	1-246-473-00	10k	1-246-497-00	100k	1-246-521-00
1.1	1-246-402-00	11	1-246-426-00	110	1-246-450-00	1.1k	1-246-474-00	11k	1-246-498-00	110k	1-246-522-00
1.2	1-246-403-00	12	1-246-427-00	120	1-246-451-00	1.2k	1-246-475-00	12k	1-246-499-00	120k	1-246-523-00
1.3	1-246-404-00	13	1-246-428-00	130	1-246-452-00	1.3k	1-246-576-00	13k	1-246-500-00	130k	1-246-524-00
1.5	1-246-405-00	15	1-246-429-00	150	1-246-453-00	1.5k	1-246-577-00	15k	1-246-501-00	150k	1-246-525-00
1.6	1-246-406-00	16	1-246-430-00	160	1-246-454-00	1.6k	1-246-578-00	16k	1-246-502-00	160k	1-246-526-00
1.8	1-246-407-00	18	1-246-431-00	180	1-246-455-00	1.8k	1-246-579-00	18k	1-246-503-00	180k	1-246-527-00
2.0	1-246-408-00	20	1-246-432-00	200	1-246-456-00	2.0k	1-246-580-00	20k	1-246-504-00	200k	1-246-528-00
2.2	1-246-409-00	22	1-246-433-00	220	1-246-457-00	2.2k	1-246-581-00	22k	1-246-505-00	220k	1-246-529-00
2.4	1-246-410-00	24	1-246-434-00	240	1-246-458-00	2.4k	1-246-582-00	24k	1-246-506-00	240k	1-246-530-00
2.7	1-246-411-00	27	1-246-435-00	270	1-246-459-00	2.7k	1-246-583-00	27k	1-246-507-00	270k	1-246-531-00
3.0	1-246-412-00	30	1-246-436-00	300	1-246-460-00	3.0k	1-246-584-00	30k	1-246-508-00	300k	1-246-532-00
3.3	1-246-413-00	33	1-246-437-00	330	1-246-461-00	3.3k	1-246-585-00	33k	1-246-509-00	330k	1-246-533-00
3.6	1-246-414-00	36	1-246-438-00	360	1-246-462-00	3.6k	1-246-586-00	36k	1-246-510-00	360k	1-246-534-00
3.9	1-246-415-00	39	1-246-439-00	390	1-246-463-00	3.9k	1-246-587-00	39k	1-246-511-00	390k	1-246-535-00
4.3	1-246-416-00	43	1-246-440-00	430	1-246-464-00	4.3k	1-246-488-00	43k	1-246-512-00	430k	1-246-536-00
4.7	1-246-417-00	47	1-246-441-00	470	1-246-465-00	4.7k	1-246-489-00	47k	1-246-513-00	470k	1-246-537-00
5.1	1-246-418-00	51	1-246-442-00	510	1-246-466-00	5.1k	1-246-490-00	51k	1-246-514-00	510k	1-246-538-00
5.6	1-246-419-00	56	1-246-443-00	560	1-246-467-00	5.6k	1-246-491-00	56k	1-246-515-00	560k	1-246-539-00
6.2	1-246-420-00	62	1-246-444-00	620	1-246-468-00	6.2k	1-246-492-00	62k	1-246-516-00	620k	1-246-540-00
6.8	1-246-421-00	68	1-246-445-00	680	1-246-469-00	6.8k	1-246-493-00	68k	1-246-517-00	680k	1-246-541-00
7.5	1-246-422-00	75	1-246-446-00	750	1-246-470-00	7.5k	1-246-494-00	75k	1-246-518-00	750k	1-246-542-00
8.2	1-246-423-00	82	1-246-447-00	820	1-246-471-00	8.2k	1-246-495-00	82k	1-246-519-00	820k	1-246-543-00
9.1	1-246-424-00	91	1-246-448-00	910	1-246-472-00	9.1k	1-246-496-00	91k	1-246-520-00	910k	1-246-544-00

KLEINTEILE-VERZEICHNIS



Schraube :
Screw :
— P 3 x 10

L: Ø Type
indicates : slotted-head screw.
without indication : cross-recess screw (Phillips type).
bedeutet : Schlitzkopfschraube.
ohne Andeutung : Kreuzschlitzschraube.



Mutter, Ring, Sicherungsring
Nut, Washer, Retaining ring :
N 3 Ref.

HARDWARE NOMENCLATURE

Ref.	Shape Form	Description	Benennung
SCREWS			SCHRAUBEN
P		pan-head screw	Flachkopfschraube
PWH		pan-head screw with washer face	Flachkopfschraube mit Scheibe
PS PSP		pan-head screw with spring washer	Flachkopfschraube mit Federring
PSW PSPW		pan-head screw with spring and flat washers	Flachkopfschraube mit Federring und Scheibe
R		round-head screw	Halbrundschraube
K		flat-countersunk-head screw	Senkschraube
RK		oval-countersunk-head screw	Linsensenzschraube
B		binding-head screw	Klemmkopfschraube
T		truss-head screw	Flachrundschraube
F		flat-fillister-head screw	Zylinderschraube
RF		fillister-head screw	Linsenschraube
BV		braizer-head screw	Rundkopfschraube

Ref.	Shape Form	Description	Benennung

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